# Principle of Statistics

**Question Bank** 

**Lecture: Parzhin Anwer Mohammed** 

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Ministry of Higher Education & Scientific Research Salahaddin University-Erbil College of Administration and Economics **Department:** Economics



Subject: principle of statistics Date: 3 / 5 / 2022 Time: 1:30 Hours Stage: First

2021 - 2022

**Q1**\\ The following data represent person's number of family in small town. 3, 5, 8, 10, 12, 2, 7, 5, 11, 9, 5, 6, 13, 15, 12, 4, 5, 4, 3, 5

## Find:

1- Frequency distribution table 2- Center of Classes (Mid-point)

**Q2**\\ A/ Define in brief.

1- Sample. 2- ordinal variable 3- finite (countable)Population 4- statistics

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**B**/ What are the types of Quantitative variables?

## **Good luck**

Lecture **M.Parzhin A.Mohammed** 

Ministry of Higher Education & Scientific Research Salahaddin University-Erbil College of Administration and Economics Department: Economics



Subject: Principle of statistics Date: 27/ 4 / 2022 Time: 1:15 Hours Stage: First 2<sup>st</sup> Semester

2022 - 2023

## O1|| The following data represent weight (30) children from a small town.

20, 10, 8.6, 7, 5.9, 6, 12, 8, 14, 5, 9, 10.5, 25, 16, 19, 20.9, 7.8, 15, 18, 24,9,7,15,16.9,11,8,26,17.6,21,10

## Find the frequency distribution table and midpoint (classes of center)?

## **Q2**\\ A/ Define in brief.

1- Population 2- Non- Random Sample. 3- Qualitative variables

4- Inferential statistics

**B** / If you have (**4**) person ...... **A**, **B**, **C**, **D**.

How many way you select (2) person for (4)?

### Good luck

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Lecture M.Parzhin A.Mohammed

Ministry of Higher Education & Scientific Research Salahaddin University-Erbil College of Administration and Economics Department: Economics Stage: First



Subject: Principle of Statistics Date: / 6 / 2022 Time: 2 Hours

## Q1\\ Define in brief.

(10Marks)

Descriptive statistics.
 Population 3- Variable
 Continuous variables
 Random sample

Q2 $\$  A/ The following data represent eyes color for 13 students: (20Marks)

(Blue, Brown, Green, Black, Brown, Green, Black, Brown, Black, Blue, Black, Green, Black.). Find a frequency distribution for the above data?

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**B**/

- 1- What are the Methods of Collecting the Data?
- 2- What are the types of random sample?

Q3\\ The following data represent person's number of family in small town: (20 Marks)

#### 1. Frequency distribution Table? Find: 2. Center of class (Mid point)?

**O4**\\

A Homogeneous statistical community with only (4) four numbers (ABCD), A simple random sampling of three (3) items is required. What is the number of possible samples to be chosen from this community and what is the probability of choosing any one?

Good Luck

Parzhin A. Mohammed Lecturer

**Dr.Baxter S. mohammed** Head of department

Higher Edu. and Sci. Research Ministry Salahaddin University College of Administration & Economic **Department: Economics** 

**Final Exam - Second Semester:** Second Trial 2022 - 2023

Subject: Principle of Statistics Stage: First Time: 2 Hours Date: / /2023

**Q1**\\ From the following frequency table.

Classes 2-3 4-5 6-7 8-9 10-11 fi 3 1 2 1 1



(15Marks)

(10 Marks)

Find: 1. Mean.	2. Me	dian 3.	Range	
Q2// A/ Define	;			(20 Marks)
1- Statistics Population	2-Variable 3- Ra	ndom Sample	4- Nominal Variables	5-
<b>B</b> / What a	re the types of Sa	amples and def	ine each one?	
Q3\\ From the fo	ollowing data			(10Marks)
FM, M, M	I, FM, M, FM, M	, M, M, M, FM	I, M, FM, FM, FM, M	
Find:				
1. Frequency	y distribution tabl	e?		
2. Bar chart	?			

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**Q4**\\ from the following Frequency table.

(15 Marks)

Classes	5-9	9-13	13-17	17-21	21-25	25-29
f <sub>i</sub>	9	6	5	6	2	2

Find:1- Center of class (midpoint)?2-Ascending Cumulative Frequency distribution (ACF)?3-Relative Frequency?

Good Luck								
Dr. Bakhtyar S. Mohammed	L.Isra M. Ali	L. Parzhin A. Mohammed						
Head of Department	Examiner	Examiner						

Ministry of Higher Education & Scientific Research Salahaddin University-Erbil College of Administration and Economics Department: Administration

Subject: principle of statistics Date: 3 / 12 / 2022 Time: 1:30 Hours Stage: First

Q1 $\$  The following data represent weight (30) children from a small town.

120	110	108.6	107	105.9	106	112	108	114	105
109	116.5	125	116	119	120.9	107.8	115	118	124
109	107	115	116.9	111	108	126	117.6	121	110
Find:									

2- Frequency distribution table 2- Relative frequency 3- Center of Classes (Mid-point) 4- Ascending Cumulative Frequency distribution (ACF).

Q2\\ A/ Define in brief.

2- Population. 2- Random samples 3- variable 4- Infinite (uncountable)Population

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B/ What are the types of Quantitative variables?

#### **Good luck**

#### Lecture M.Parzhin A.Mohammed

Ministry of Higher Education & Scientific		Subject: Principle of Statistics
Research		Date: / 1 / 2023
Salahaddin University-Erbil		Time: 2 Hours
College of Administration and Economics		
Department: Administration	Final Exam:First Course	
Stage: First	First Trial	
	2022 – 2023	

Q1\\ Answer the following questions.

(10 Marks)

- 2- What are the differences between Qualitative variable and Quantitative variable .cite example for each.
- 3- What are the types of Non- Random sample?

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Q2\\ A/ Select (4) students out of (24) students by use systematic sampling. (20 Marks)

**B**/ from the following data **5**, **7**, **9**, **11**, **13**, **15**, **17**. Find: 1. Range 2. Variance  $(S^2)$ .

Q3\\ The following data represent person's number of family in small town. (20 Marks)

3, 5, 8, 10, 12, 2, 7, 5, 11, 9, 5, 6, 13, 15, 12, 4, 5, 4, 3, 5

Find: 1. Frequency distribution Table?

- 3. Center of class (midpoint)?
- 4. Ascending Cumulative Frequency distribution (DCF)?

**Q4**\\ Draw a **frequency histogram to** illustrate the following frequency distribution.

(10 Marks)

Classes	2-5	5-8	8-11	11-14	14-17
fi	5	7	3	4	1

Good Luck

Parzhin A. Mohammed Lecturer Assist. Prof .D. Mahabad N. Abdulla Head of department Ministry of Higher Education & Scientific Research Salahaddin University-Erbil College of Administration and Economics Department: tourism Stage: First Year



Subject: principle of statistics Date: 27 / 5 / 2018 Time: 3 Hours

Final Exam: First Trial 2017 – 2018

**Q1**\\ from following data (15Marks)

Class	10 -20	20 - 30	30 - 40	40 - 50	50 - 60
fi	2	4	6	8	5
			•		

Find: 1- Mean(X) 2- Median(me) 3-Harmonic mean(H.m)

**Q2\\** the following data represent weight (30) children from a small town. (15 MARKS)

20	10	8.6	7	5.9	6	12	8	14	5
9	10.5	25	16	19	20.9	7.8	15	18	24
9	7	15	16.9	11	8	26	17.6	21	10

Find\\ 1- Frequency distribution.2- Relative frequency.3- Mid points of theclasses.

4- Descending cumulative frequency distribution (Fi).

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Q3\\A\The following data represent eyes color for 10 student.

(10 Marks)

Blue, brown, black, brown, black, brown, black, Blue, black, black. Draw the pie chart.

**B**\ If you have ten ball (1, 2, 3, ....,10), How many way you select (5) ball for (10)?

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Q4\\Fromfollowingdata.

(10 Marks)

 $x_i = 2, 4, 5, 8, 3$  $y_i = 1, 2, 3, 2, 3$ 

	<b>\ A</b> / □ 1 − <b>L</b> − <b>C</b>	Define	in brie	ef.		. 1.4		2.0	1	_	2 1	<b>. . . .</b>	(10	Marks)
	1- Infi	inite (1	uncou		e) Poj	pulati	on.	2-3		e 	3- 11	nteren	tial si	
	B/	1- w	hat ar	e the	Sour	ces of	Colle	ectin	g the I	Data?				
		2- W	/hat ar	e the	types	s of Q	uanti	tative	e varia	bles?				
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Q1\	\\ follo\	wing d	ata rep	reser	nt the	weigh	nt of (3	30) st	udent				(15	MARKS
	23	55	17	42	59	40	43	18	28	36	31	32	28	19
	24	26	38	34	29	30	22	57	45	48	20	21	39	45
Find fred	d\\ 1- quency 	Frequ	ency di	istribu	ution	2.	- relat	ive fr	equen	су	3- A	scendi	ing cu	mulative
	 \\ from	follow	ving da	ta									(15	marks)
Q2 <sup>\</sup>	asses	3	- 9	9	- 15	1	15 – 2	1	21 –	27	27	7-33		33-39
Q2 <sup>\</sup> cl		1	L0		12		8		6			3		1
Q2 <sup>\</sup> cl	Fr													

Ministry of Higher Education & Scientific Research Salahaddin University-Erbil College of Administration and Economics Department: Administration	Subject: Principle of statistics Date: 21/ 12 / 2023 Time: 1:00 Hours Stage: First
<b>Xi=</b> 8,5,6,10,9,4,7,12,4,1	.5
Find 1- mean(x) 2- median deviation(x)	3- standard deviation (S) 4 – mean
Q4\\if you know number of student in departn First stage: 200 second Stage: 250 third Stag pie chart	nent of tourism (5marks) ge: 300 forth stage: 150 percentage by
 Q5\\ from the following data (10 marks)	
xi = 8 6 10 5 9	4 7 12 4 15
Find 1- C.V 2- Mode(mo)	
 Good Lu Parzhin Anwer Mohammed Lecturer	uck Assist. Prof .mahabad nori Head of department

## Q1 the following data represent persons number of family in small town.

3, 5, 10, 12, 2, 7, 5, 11, 9, 5, 6, 13, 15, 12, 4, 5, 4, 3, 5, 8

**Find:** 1-frequency distribution table. 2-Descending cumulative frequency (DCF) 3- Draw the frequency histogram.

Q2\\ A/ Define in brief.

1- Statistics. 2- Population. 3- Quantitative variables 4- Variable.

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B/ Suppose there 32 elements in the population and a sample of 8 elements is needed(by using Systematic random sampling) ?

### Good luck

#### Lecture M.Parzhin A.Mohammed

Ministry of Higher Education & Scientific Research Salahaddin University-Erbil College of Administration and Economics Department: Administration



Subject: Principle of Statistics Date: 10 / 1 / 2024 Time: 2 Hours Stage: First

Final Exam- First semester: First Trial 2023- 2024

# Q1\\ From the following frequency table. Marks)

(20

(15

classes	2-4	4-6	6-8	8-10	10-12
fi	4	5	6	3	2

**Find:** 1. Mean( $\overline{x}$ ). 2. Median (Me) 3. Mode (Mo) 4. Harmonic mean ( $\overline{H}$ )

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Q2// Answer the following question

## Marks)

- 1- What are the differences between Ordinal variable and nominal variable .cite example for each?
- 2- What are the types of Random sample?

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**Q3**\\ From the following data.

## (15Marks)

Female, Male, Male, Female, Male, Female, Male, Male, Male, Female, Male,

Female, Female, Female, Male

 Find: 1. Frequency table. 2. Relative frequency.
 3. Draw the Bar chart.

 --- Q4\\ A/From the following data:
 (10

 Marks)
 (10

 $\mathbf{x}_i = \mathbf{2}, \ \mathbf{3}, \ \mathbf{5}, \ \mathbf{6}, \ \mathbf{3}$ Find:  $1 \cdot \sum_{i=2}^5 \mathbf{x}_i = 2 \cdot \sum_{i=1}^5 (x_i + 2) = 3 \cdot \sqrt{\sum_{i=1}^5 x_i}$ 

B/ The mean weight of 9 items is (15) if one more item is added to this series , the arithmetic mean becomes (16) ; find the values of the  $10^{th}$  item.

**Good Luck** 

Parzhin A. Mohammed Lecturer Dr. Jwan S.Rashid Head of department